

Abstract of the Disclosure:

A semiconductor device in chip format having a chip which has at least one first insulating layer and electrical connection pads free of the insulating layer is described. On the first  
5 insulating layer, interconnects run from the electrical connection pads to base regions of external connection elements. A further applied insulating layer is provided with openings leading from the outside to the base regions of the external connection elements. In the openings there is a  
10 conductive adhesive, onto which small balls which are metallic at least on the outside are placed. The semiconductor element can also contain a solder paste instead of a conductive adhesive in the openings, and metallized small plastic balls are placed onto the solder paste. The invention furthermore  
15 relates to methods for producing the semiconductor device described.

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